

AMENDMENT UNDER 37 C.F.R. § 1.111  
Application No.: 09/913,611  
Atty Docket No.: Q54917

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

Claims 1 and 2. (canceled).

Claim 3. (currently amended): A gas diffusion porous carbon sheet for a solid polymer fuel cell which comprises a carbon fiber woven fabric obtained by firing in a non-oxidizing atmosphere a cellulose-based woven fabric in a temperature range of 900-3000°C, and having a thickness in the range of 0.05-0.4 mm, a volume resistivity of less than 0.2 Ω•cm in the layer direction, and a gas permeability of not less than 1500 cc/cm<sup>2</sup>/hr/mmAq, and, wherein the electrical resistance in the direction of thickness of the woven fabric is no greater than 50 mΩ•cm<sup>2</sup> as measured between two copper plates with a load of 4 kgf /cm<sup>2</sup>.

Claim 4. (currently amended): The gas diffusion porous carbon sheet for a solid polymer fuel cell carbon fiber woven fabric as claimed in claim 3, wherein the carbon fiber woven fabric has an orientation which includes an orientation component having an orientation ( $q/(p+q)$ ) of 4/9 or greater.

Claim 5. (currently amended): The gas diffusion porous carbon sheet for a solid polymer fuel cell carbon fiber woven fabric as claimed in claim 3, wherein the carbon fiber woven fabric has an orientation which is an average orientation ( $q/(p+q)$ ) of 1/3 or greater.

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Claim 6. (currently amended): The gas diffusion porous carbon sheet for a solid polymer fuel cell carbon fiber woven fabric as claimed in claim 3, wherein the carbon fiber woven fabric which is a plain weave.

Claim 7. (currently amended): The gas diffusion porous carbon sheet for a solid polymer fuel cell carbon fiber woven fabric as claimed in claim 3, wherein the carbon fiber woven fabric which has a water repellent property having a water absorption height of less than 2 cm, and wherein a water repellent resin is coated in an amount of 5 to 60% by weight based on the carbon fiber fabric.

Claim 8. (canceled).

Claim 9. (withdrawn): The process for manufacture of a carbon fiber woven fabric, characterized by firing a cellulose-based woven fabric in a non-oxidizing atmosphere.

Claim 10. (withdrawn): The process for manufacture of a carbon fiber woven fabric as claimed in claim 9, wherein said cellulose-based woven fabric is soaked with a phosphoric acid or phosphorus compound solution.

Claim 11. (withdrawn): The process for the manufacture of a carbon fiber woven fabric as claimed in claim 9, wherein the firing temperature is in the range of 900-3000°C.

Claim 12. (withdrawn): The process for the manufacture of a carbon fiber woven fabric as claimed in claim 9, which includes coating the fired carbon fiber woven fabric with a water-repellent resin.

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Claim 13. (currently amended): The gas diffusion porous carbon sheet for a solid polymer fuel cell carbon fiber woven fabric as claimed in claim 3, wherein the compressive strength is not less than 70 kgf/cm<sup>2</sup>.